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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/590,531	08/24/2006	Rex J. Kuriger	247082-090USPX (MSE-2685)	9794
71331 NIXON PEAE	7590 11/24/2009 BODY LLP	EXAM	EXAMINER	
300 S. Riverside Plaza, 16th Floor			EISEMAN, ADAM JARED	
CHICAGO, IL 60606-6613			ART UNIT	PAPER NUMBER
			3736	
			MAIL DATE	DELIVERY MODE
			11/24/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No.	Applicant(s)		
10/590,531	KURIGER ET AL.		
Examiner	Art Unit		
ADAM J. EISEMAN	3736		

Office Action Summary	Examiner	Art Unit				
	ADAM J. EISEMAN	3736				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DY Estensions of time may be available under the provisions of 3 CPR. 1.3 after SIX (6) MONTHS from the mailing date of this communication. If NO principle of reply is specified above, the macrimum statutory period was a fixed to the communication of the communicatio	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this o D (35 U.S.C. § 133).				
Status						
Responsive to communication(s) filed on 9/11/. 2a	action is non-final. nce except for formal matters, pro		e merits is			
Disposition of Claims						
4) Claim(s) 1-7 and 10-35 is/are pending in the ap 4a) Of the above claim(s) is/are withdraw 5) Claim(s) 1-7 and 10-35 is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examine: 10) The drawing(s) filed on is/are: a) accomplicated and accomplicate may not request that any objection to the correction of the decrease of the correction of the corre	epted or b) objected to by the I drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 C				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive I (PCT Rule 17.2(a)).	on No ed in this National	Stage			
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information-Disclosure-Statementic) (PTO/SB/CD) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate				

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 9/11/2009 has been entered.

Claim Rejections - 35 USC § 103

- The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- Claims 1-7 and 10-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Douglas (US 5,951,492 referenced in previous action) in view of Dosmann (US 2003/0171696) and Roe et al (US 2004/0127818).

Douglas discloses an apparatus for lancing the skin of a test subject and collecting a body fluid sample from the lanced site comprising: A body (element 26) having an open end (see figure 1); a disposable element comprising a lancing needle for piercing the skin and a capillary tube for collecting the body fluid from the lancing site (column 5, lines 36-43); a lancing mechanism for coupled to the needle adapted to move the lancet between a retracted position and a lancing position (column 5, lines 25-35); a mechanism for moving the capillary tube toward the lancing site for collecting a body fluid (column 5, lines 59-67); an outer end cap (element 24) having a first end

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couple to the open end of the body and a second end for contacting the skin of the subject, the outer end cap having an aperture that the tip of the lancet enters when in the lancing position, and a wall extending between the first and second end (column 5, lines 44-58; figures 1 and 2); and an inner end cap (element 66) disposed within the outer end cap having a first end couple to the body and a second end forming a second aperture that the lancet enters when lancing, the second end adapted to contact the skin of the test subject when in the collecting position, the wall of the outer end cap extending farther towards the skin that the inner end cap during lancing such that the skin of the subject is drawn inside the outer end cap and contacts the inner end cap (see figures 5 and 6).

However, Douglas does not disclose a hollow lancet for lancing and collecting the fluid sample wherein the interior of the hollow lancet forms a channel for moving the fluid sample from the tip to the reaction area; that the lancing mechanism provides for a collecting position; or that the outer and cap and the inner end cap remain in contact with the skin in the lancing position to assist in sample formation and collection..

Dosmann teaches an optical format for lancing the skin for collecting a body fluid sample from the lanced site comprising a hollow lancet (element 10) having a tip adapted to puncture skin and collect body fluid (paragraphs [0003]-[0004]; figures 1 and 2); the interior of the hollow lancet forming a channel (element 13) for moving a fluid sample from the tip to a reaction area (paragraph [0014]). The body fluid is drawn through the channel using capillary action or vacuum assisted capillary action (paragraph [0014]). Furthermore this optical format and integrated lance includes a

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viewing window to allow optical analysis of the sample by transmission spectrometry by passing a beam of light through the lance viewing windows to a detector (paragraphs [0004] and [0014]). The lancet provides for significantly less pain, high probability of blood harvesting and improved overall test time by integrating the lance, harvest and analysis operations (abstract).

Roe teaches a tip design comprising an outer end cap for contacting the skin (element 46) and an inner end cap (element 82) disposed within the outer end cap wherein the outer end cap and the inner end cap remain in contact with the skin in the lancing position in order to assist in sample formation and collection (see figure 2, both end caps are in contact with the skin during the lancing position).

Regarding claims 1-7 and 10-35; it would have been obvious to one of ordinary skill at the time off the invention to substitute Douglas' disposable elements comprising separate needle and capillary tube connected to a test element with Dosmann's singular hollow lancet for lancing the skin and collecting fluid through the interior of the lancet in order to improve test time by integrating the lance, harvest and analysis operation as taught by Dosmann. Furthermore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify Douglas' end caps to both remain in contact with the skin during the lancing position as taught by Roe to assist in sample formation and collection.

Further regarding claims 1-7 and 10-35; Douglas teaches that the capillary tube is movable to a collecting position in order to collect the body fluid from the lancing area. It would have been obvious to one of ordinary skill in the art at the time of the invention

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to modify Douglas' lancing mechanism to include a collecting position in order to draw the fluid into the channel formed in the hollow lancet of a Douglas/Dosmann/Roe combination.

Further regarding claims 2, 3, 10 and 29-32; Dosmann discloses the lancet defined by a square, fused silica capillary tube (paragraph [0010]).

Further regarding claim 4-6; Dosmann discloses the use of a vacuum around the lancing area to enhance blood flow (paragraph [0004]). It would have been obvious to one of ordinary skill in the art at the time of the invention that a vacuum used in the Douglas/Dosmann/Roe combination apparatus when the outer end cap is in contact with the skin would evacuate the air from the inner and outer ends caps and thusly create a vacuum that would position the skin of the test subject against he second end of the inner end cap.

Further regarding claims 5 and 6; it would have been obvious to one of ordinary skill in the art at the time of the invention to use known methods of applying a vacuum in blood collection devices including use of a diaphragm or bellows.

In regards to claim 7; Dosmann discloses using a light source for illuminating the reaction of the reagent and analyte in the fluid sample and a light detector for detecting light transmission through the reaction (paragraph [0014]).

Regarding claim 11; it would have been obvious to one of ordinary skill in the art at the time of the invention to have the retracted and collecting positions of a Douglas/Dosmann/Roe combination be substantially the same in order to simplify the

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lancing mechanism so that it only has two positions instead of three (since the collecting and retracted position would be the same).

Further regarding claims 12-34; the method as claimed would define the obvious use of a Douglas/Dosmann/Roe combination in view of Dosmann's disclosure on the method of optically analyzing a body fluid collected from a puncture site (paragraph [0014]) and Douglas' disclosure of how the lancing body and mechanism works.

In regards to claim 18 and 28; it would have been obvious to one of ordinary skill of optical analysis to determine the start time of a colorimetric reaction based on the light transmitted through the lancet.

Further regarding claim 35; Douglas shows that the inner end cap does not extend beyond the outer end cap in the retracted, lancing and collecting positions (figures 1-6). Thus it would have been obvious to one of ordinary skill in the art at the time of the invention that the inner end cap remained entirely disposed within the outer end cap in all positions.

Response to Amendment

The applicant's amendments and arguments/remarks have been fully considered but are moot in view of the new grounds of rejection presented above.

The applicant amended the claims to recite that the second ends of the outer and inner end cap remained in contact with the skin during the lancing position to assist in sample formation and collection. The amendments obviated the claims over the previously held rejection. Accordingly the examiner addressed the amendments with

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the Roe reference which teaches contacting the skin with the inner and outer cap members in the lancing position to assist in sample formation and collection.

Furthermore, the applicant argues that it would not have been obvious to one of ordinary skill in the art at the time of the invention to modify Douglas by Dosmann as rejected because Dosmann's lance only has a single position while Douglas has an extending and retracting lance; and that Dosman discloses a disposable optical integrated lance whereas Douglas discloses a reusable lancing device having a disposable lancet, capillary tube and test strip. The applicant's arguments are found to be non persuasive. Firstly, as sited in the rejection using the Douglas/Dosmann/Roe combination above, Douglas's disposable lance, capillary tube and test element are being substituted with Dosmann's integrated hollow lancet. Therefore the substitution of one Douglas's disposable elements for another equal disposable element would have been obvious and practical. Secondly, it would have been obvious to one of ordinary skill in the art at the time of the invention that the Dosmann lancet could be carried through Douglas' lancing procedure having Dosmann substituted for Douglas' lancet without compromising the ability of Dosmann's integrated lancet to perform the desired function

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ADAM J. EISEMAN whose telephone number is (571)270-3818. The examiner can normally be reached on Monday-Friday 9:00 AM-5:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Max Hindenburg can be reached on (571)272-4726. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AE 11/20/2009 /A. J. E./ Examiner, Art Unit 3736

/Max Hindenburg/ Supervisory Patent Examiner, Art Unit 3736